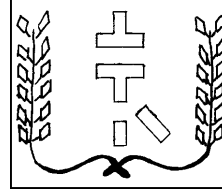


ELECTRONIC ENGINEER
INTEREST BADGE


Date Passed _____ Signed _____

1. Explain the basic Electron Theory. _____ 1
2. Explain the functions of the following:
 - a) resistor;
 - b) capacitor;
 - c) rectifier;
 - d) transistor;
 - e) integrated circuit.
 _____ 2
3. Solve a simple problem of current, voltage and resistance using Ohm's law. _____ 3
4. Explain the resistor and capacitor colour code. _____ 4
5. Explain the basic operation of heat sensitive and light sensitive components. _____ 5
6. Design a simple electronic apparatus and demonstrate it in use. Include the following:
 - a) Draw the circuit diagram.
 - b) Draw up and make a printed circuit board.
 _____ 6

OR

7.
 - a) Demonstrate that you know how to locate and repair a simple fault in a transistorised radio.
 - b) Construct a small transistorised radio suitable for short wave or FM reception.
 - c) Explain the elements of frequency modulation.
 _____ 7